

Results of contactless and non-invasive analysis: overview

Project: Digitization / Cataloguing of non-textual objects:
Description and Digitization of Precious Book Covers as Independent Works of Art.
Project-Period: 01.10.2014 - 30.09.2017

Shelfmark: Munich, Bayerische Staatsbibliothek, Cod.tibet. 119
Side a

Analytical methods: X-Ray Fluorescence Spectroscopy (XRF): p. 2-7
Fourier Transform Infrared Spectroscopy (FTIR): p. 8-16

Contact: Institute of Conservation and Restoration (IBR)
of the Bayerische Staatsbibliothek, Munich

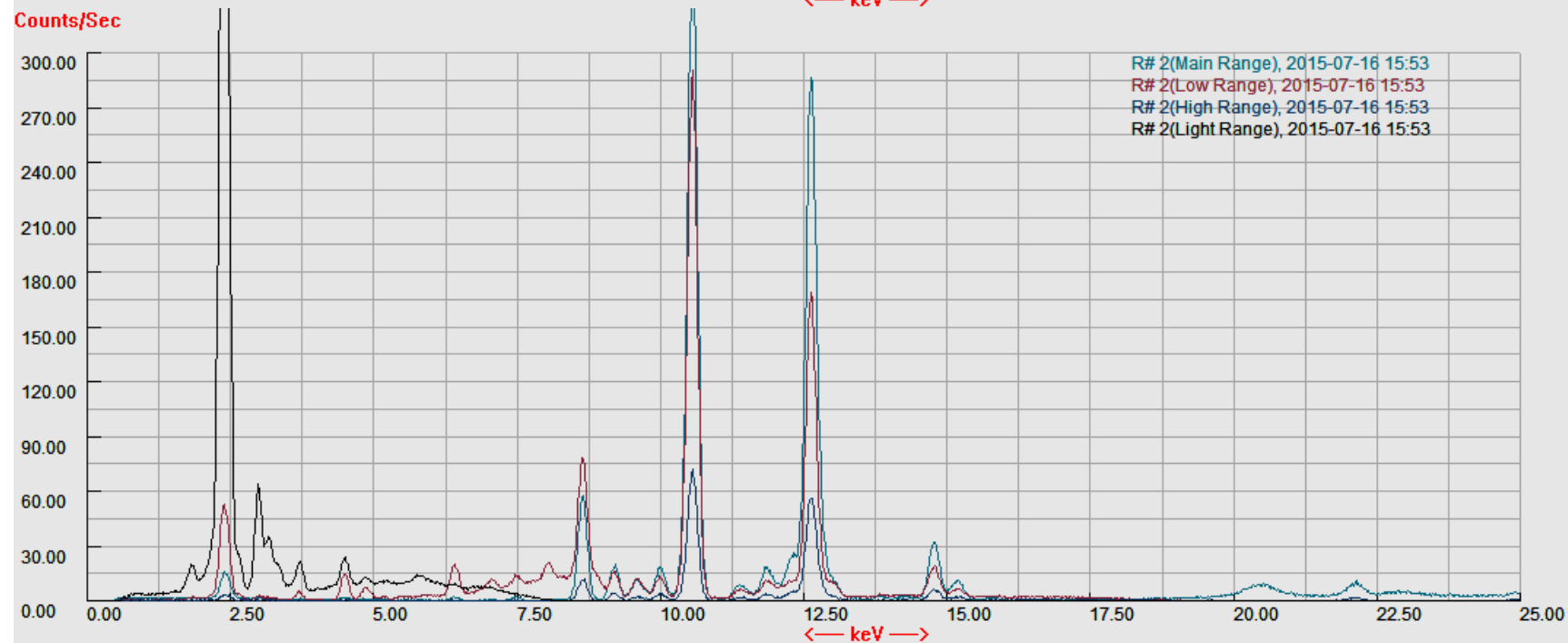
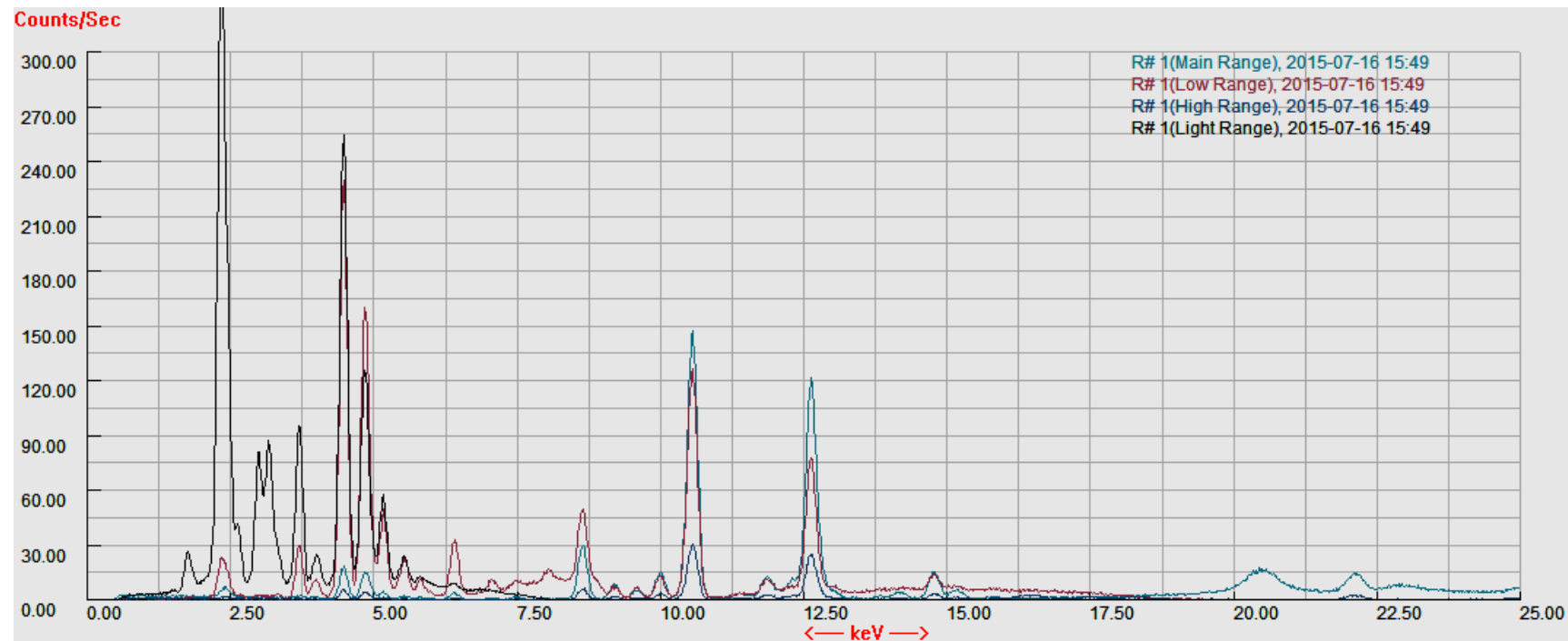
XRF-Analysis: Mapping of measurement points and spectra

Scanning parameters

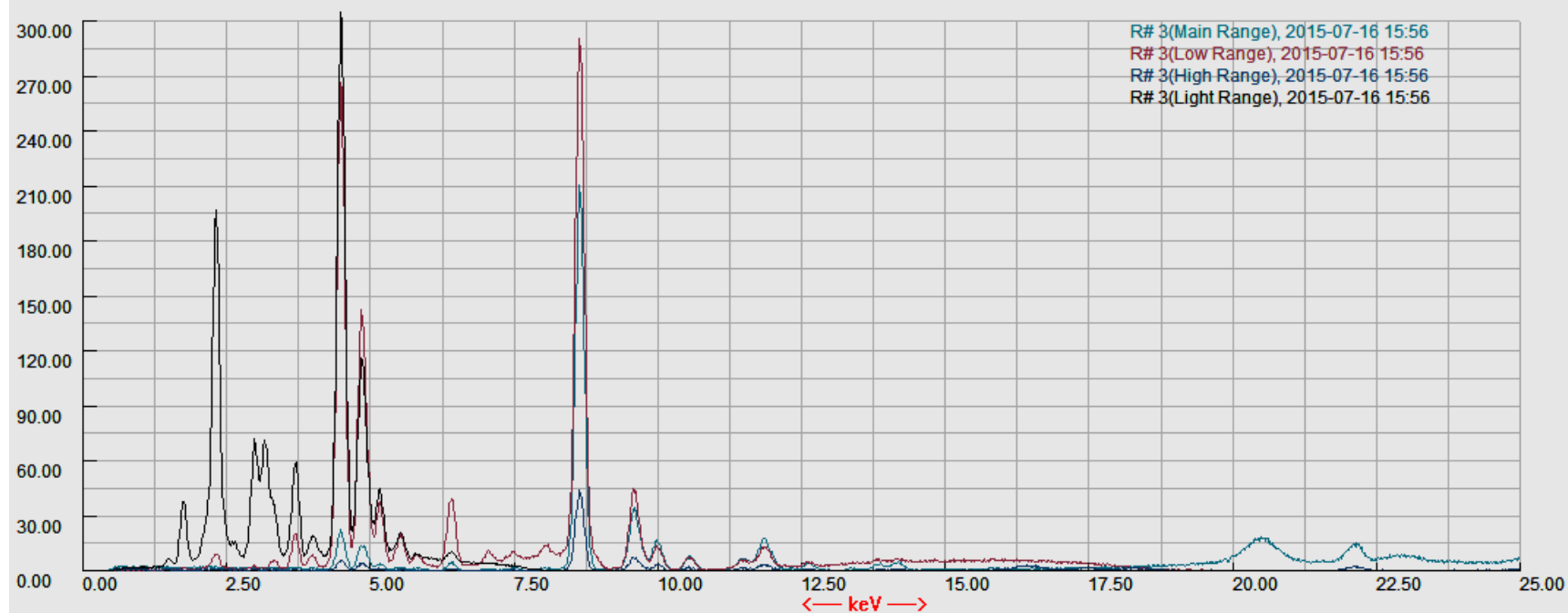
Instrument: NITON XL3t GOLD D+
Scanning mode: Mining (Cu, Zn)
Spectral resolution: 4 cm^{-1}
Scan duration: 150 s

Spectra: #1 ... #10

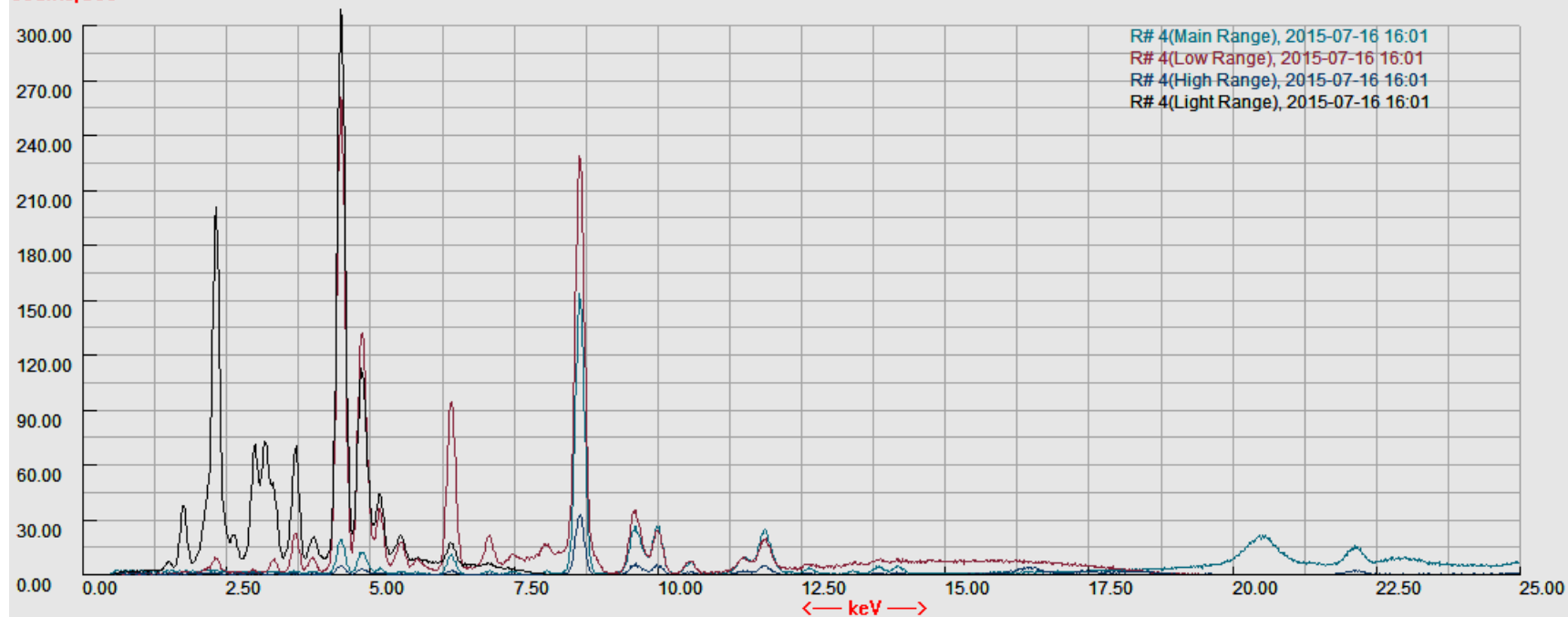


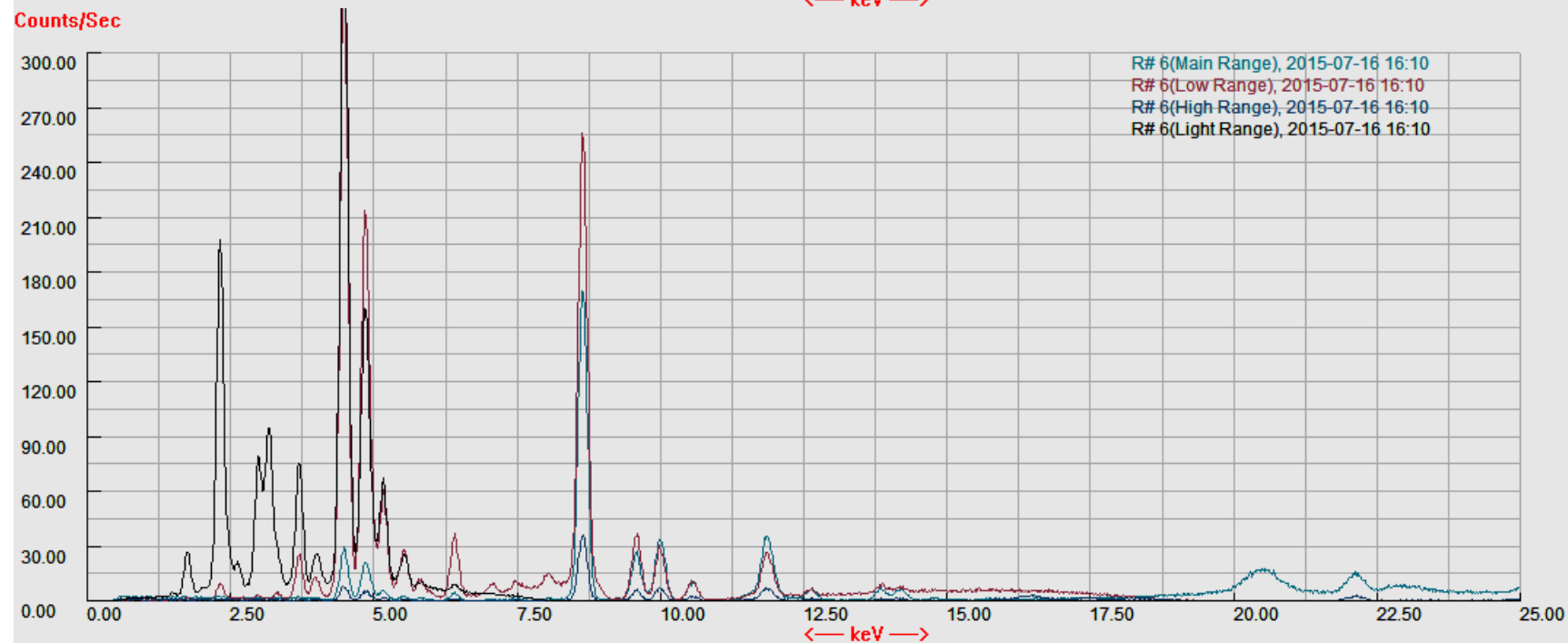
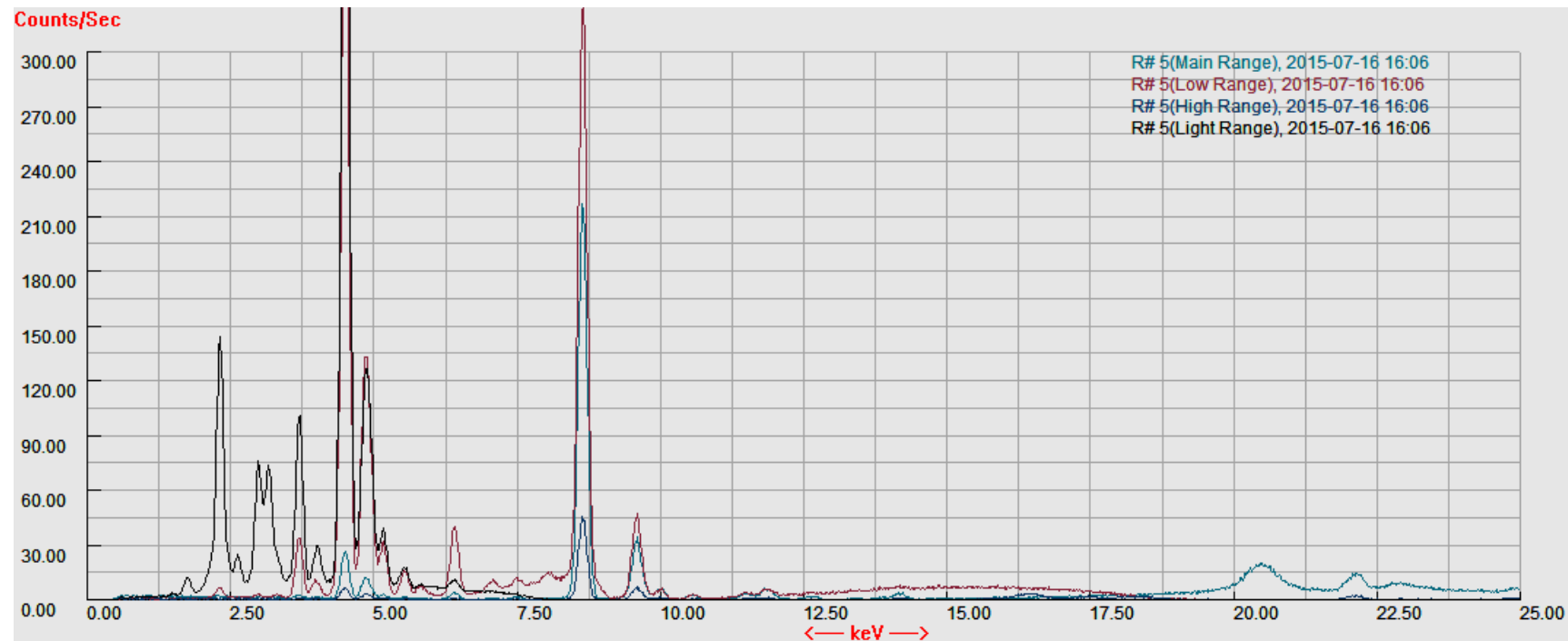


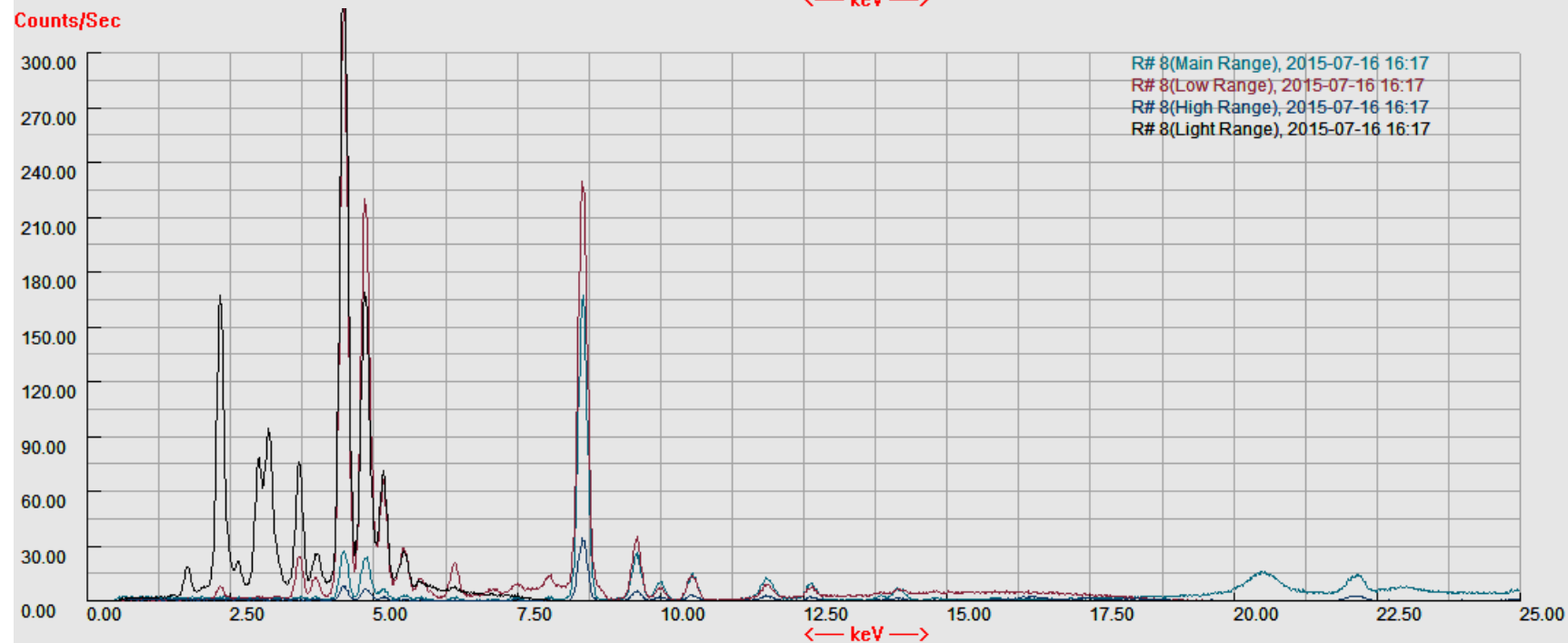
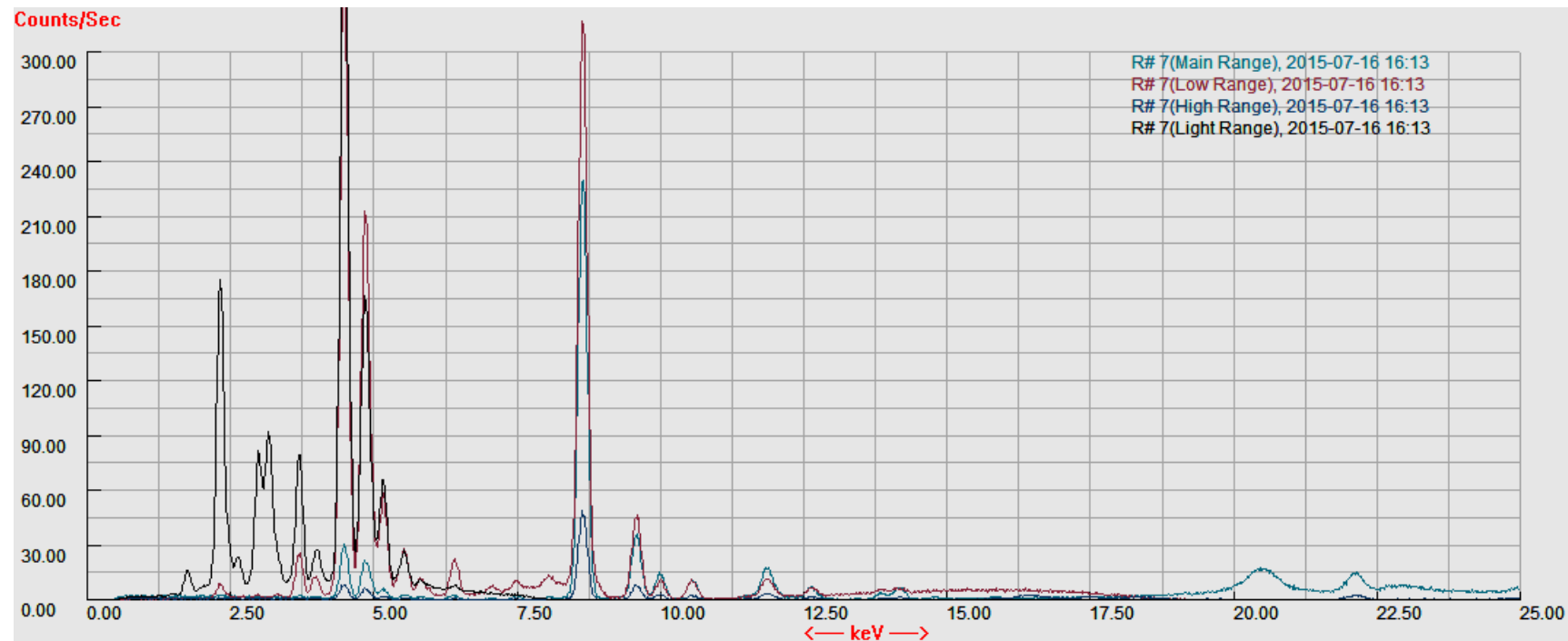
Counts/Sec



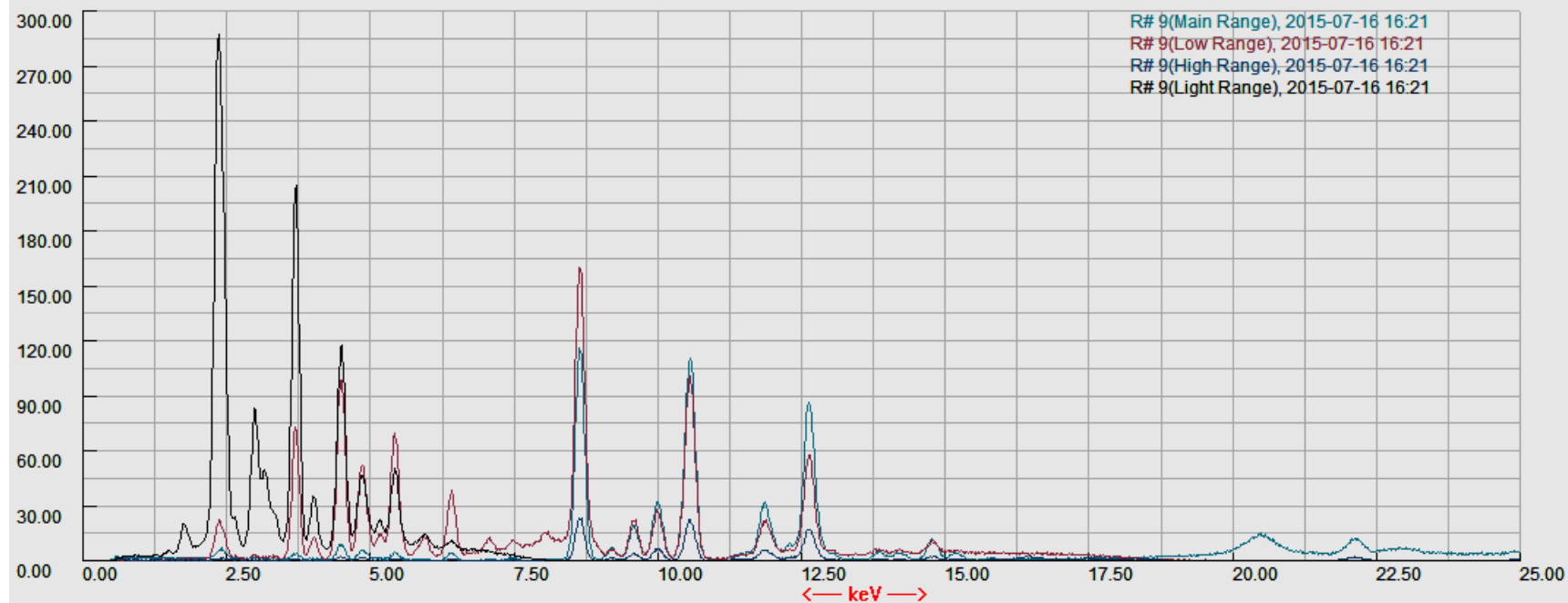
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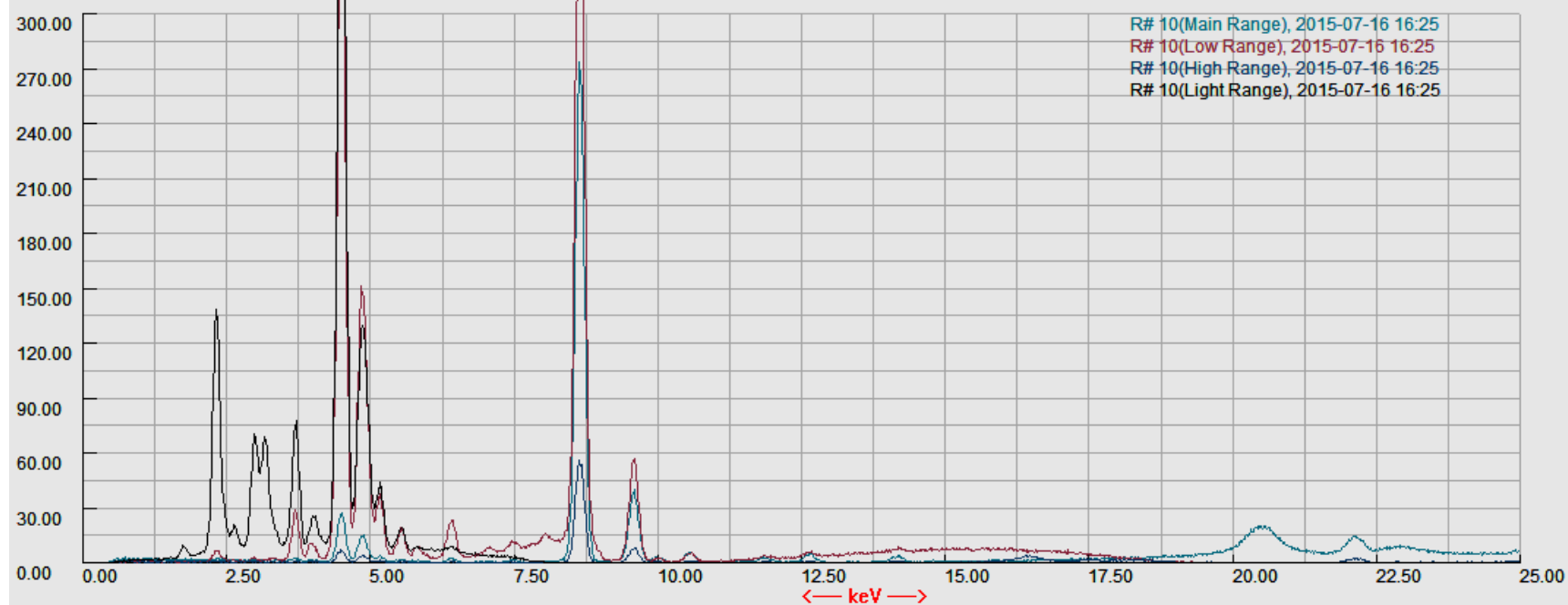




Counts/Sec



Counts/Sec



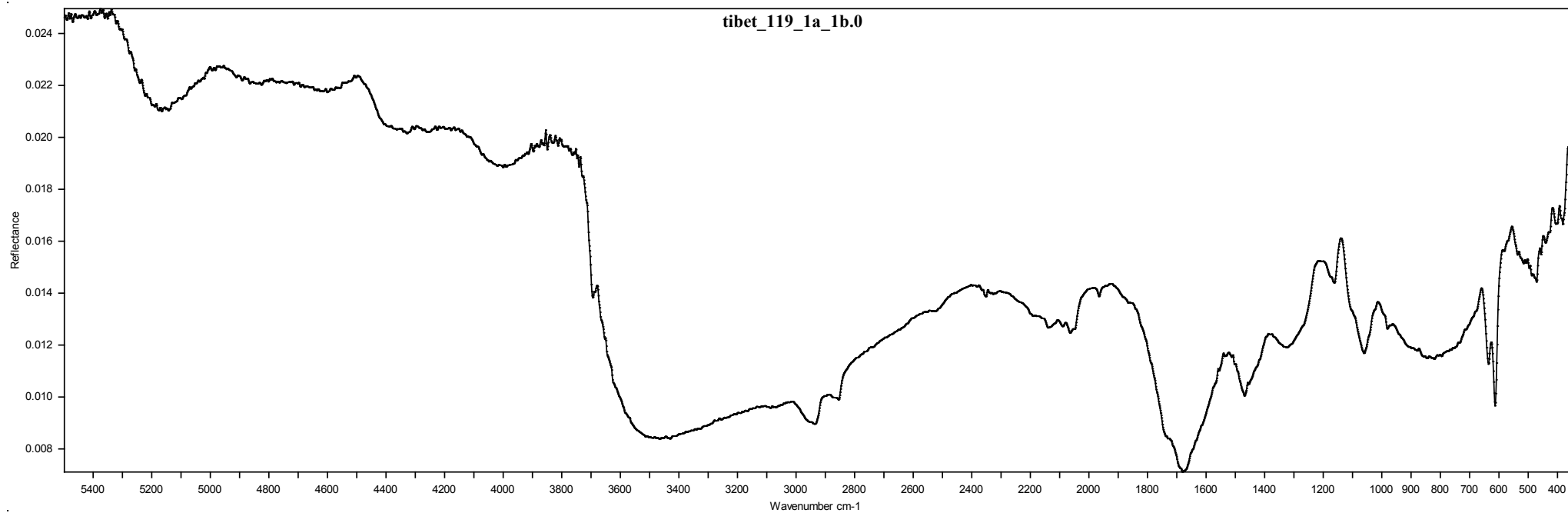
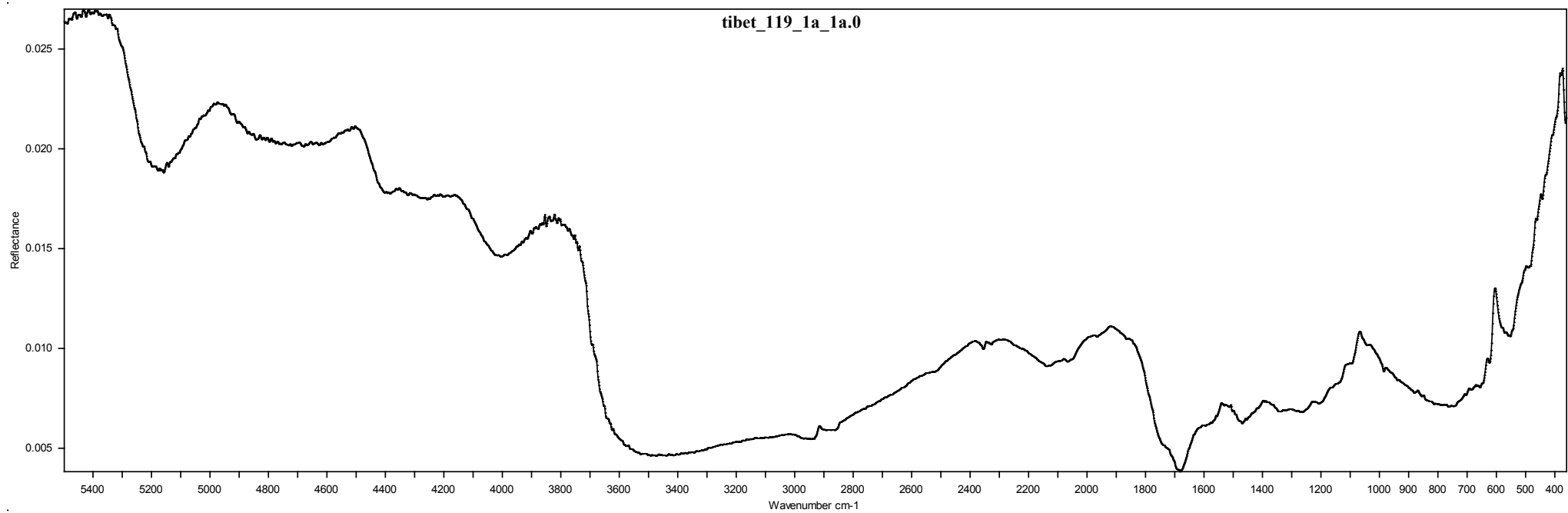
FTIR-Analysis: Mapping of measurement points and spectra

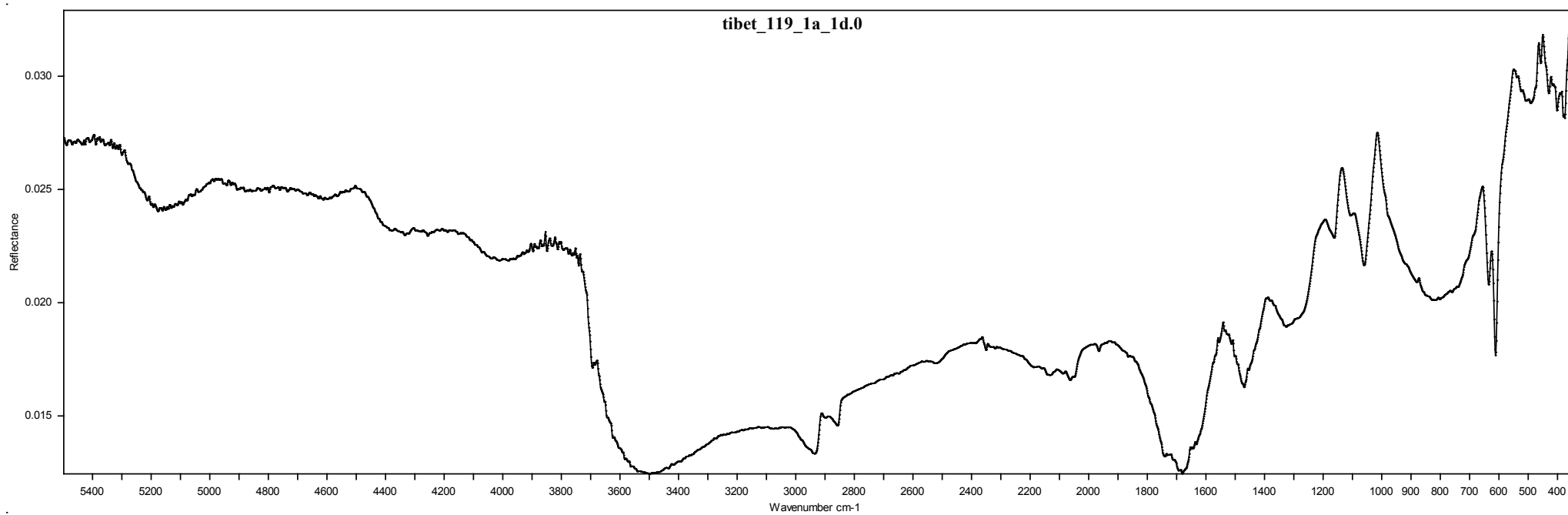
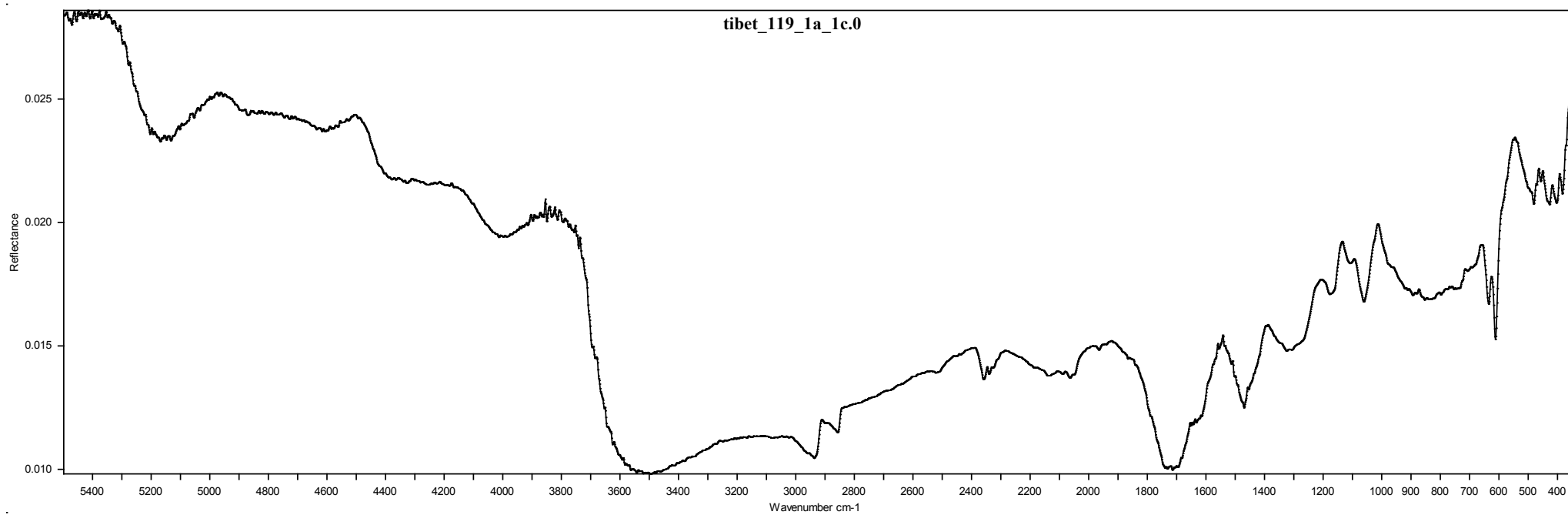
Scanning parameters

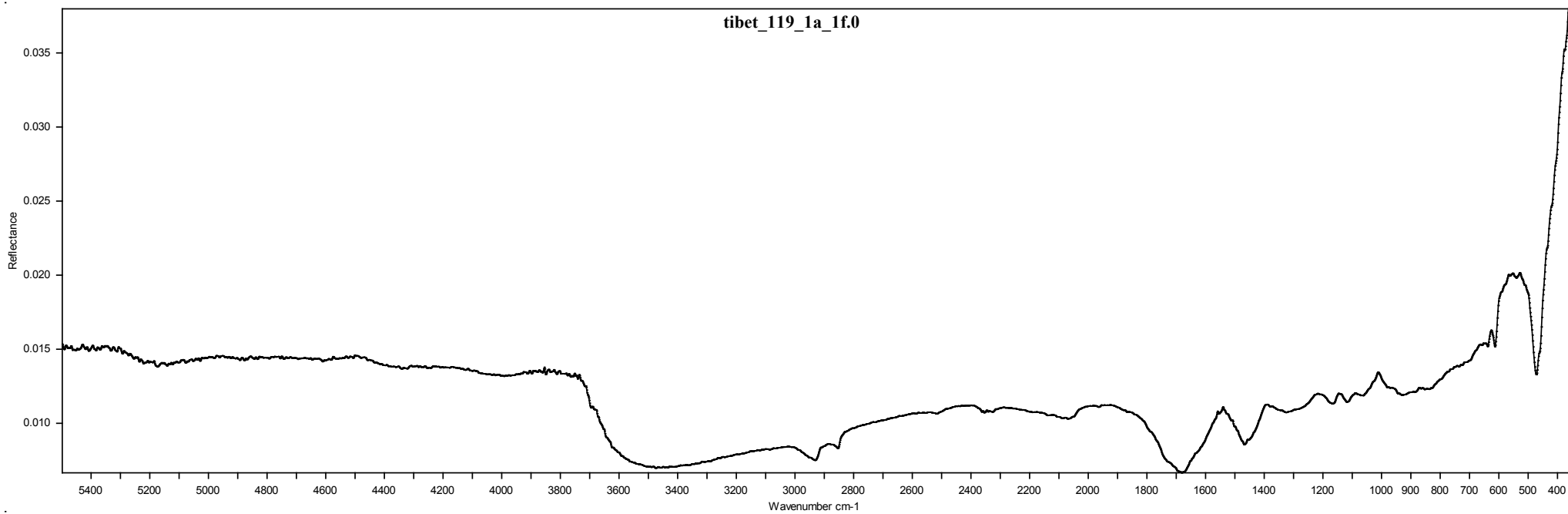
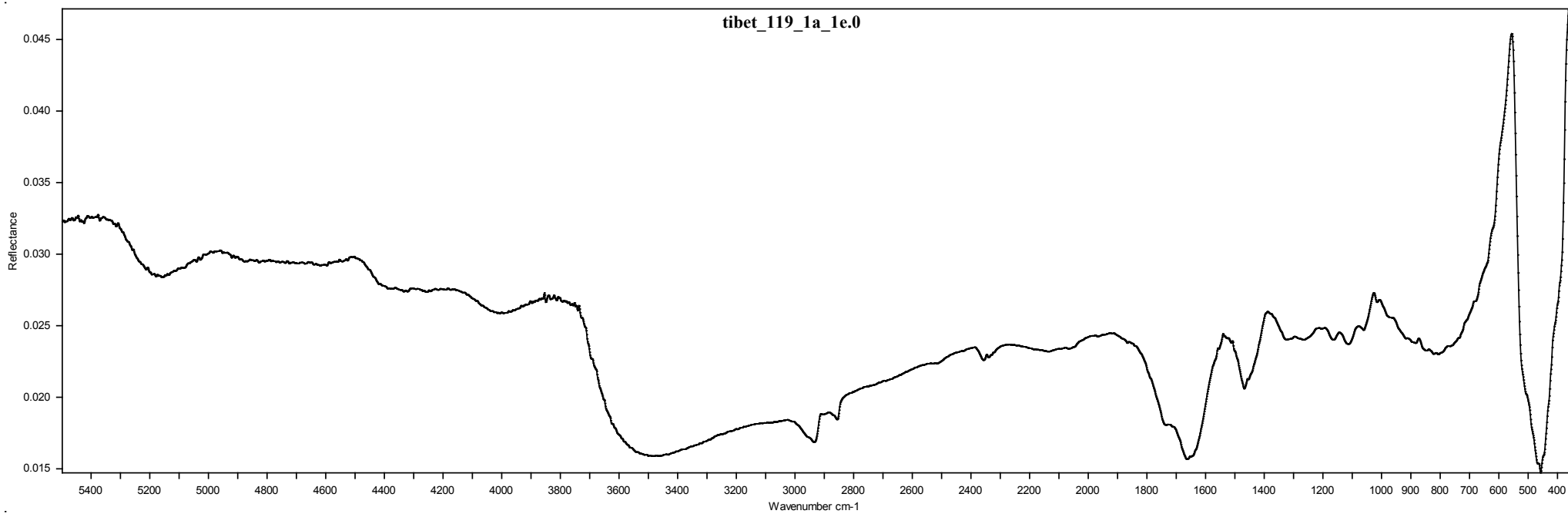
Instrument: BRUKER ALPHA
Scanning mode: FTIR external reflection mode
Spectral resolution: 4 cm^{-1}
Spectral range: $360\text{-}5400\text{ cm}^{-1}$
Scan duration: 240 scans

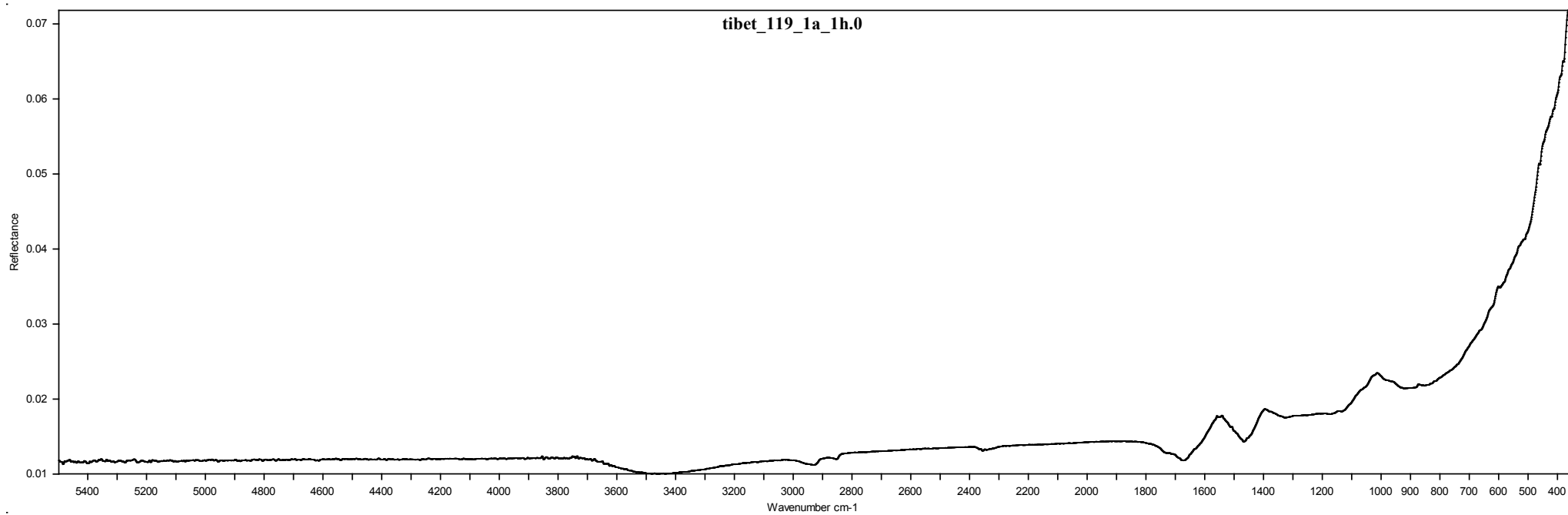
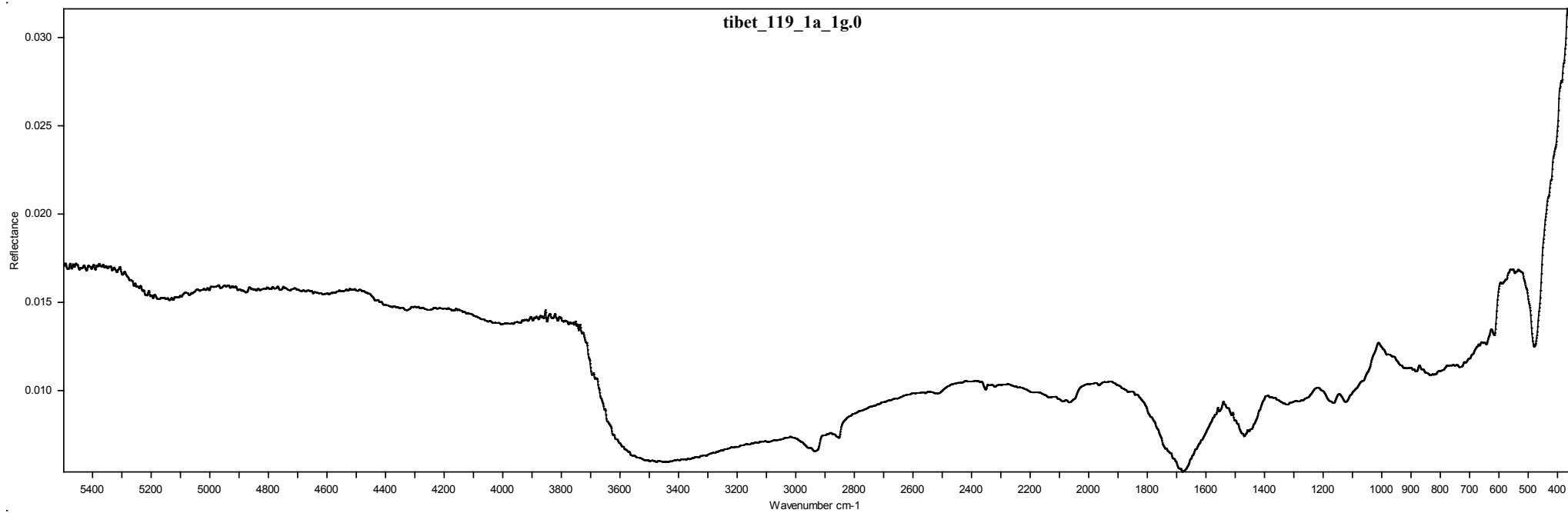
Spectra: tibet_119_1a_1a ... _1p
(filename description: signature_side a/b_number of scan)

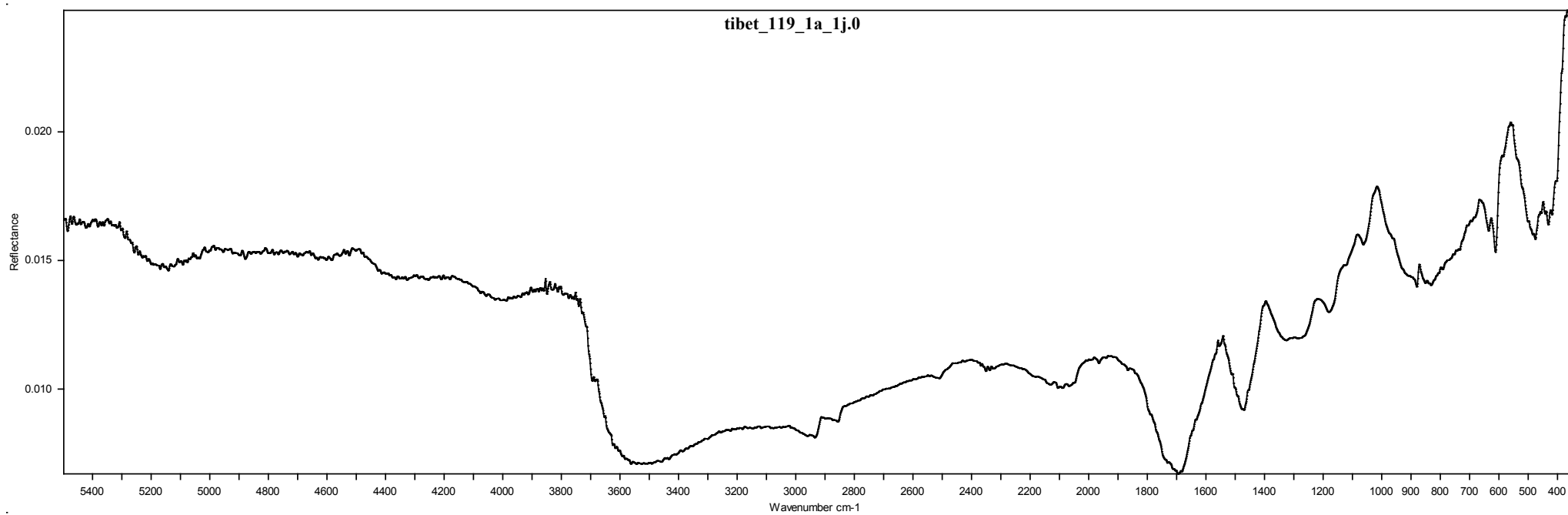
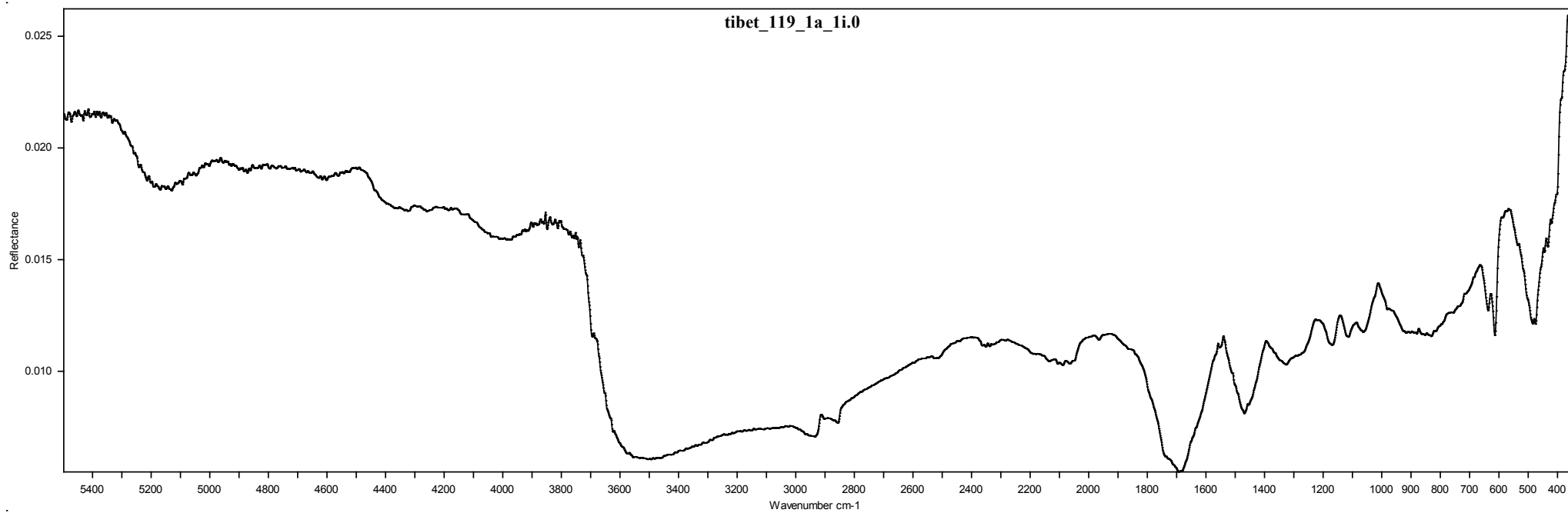


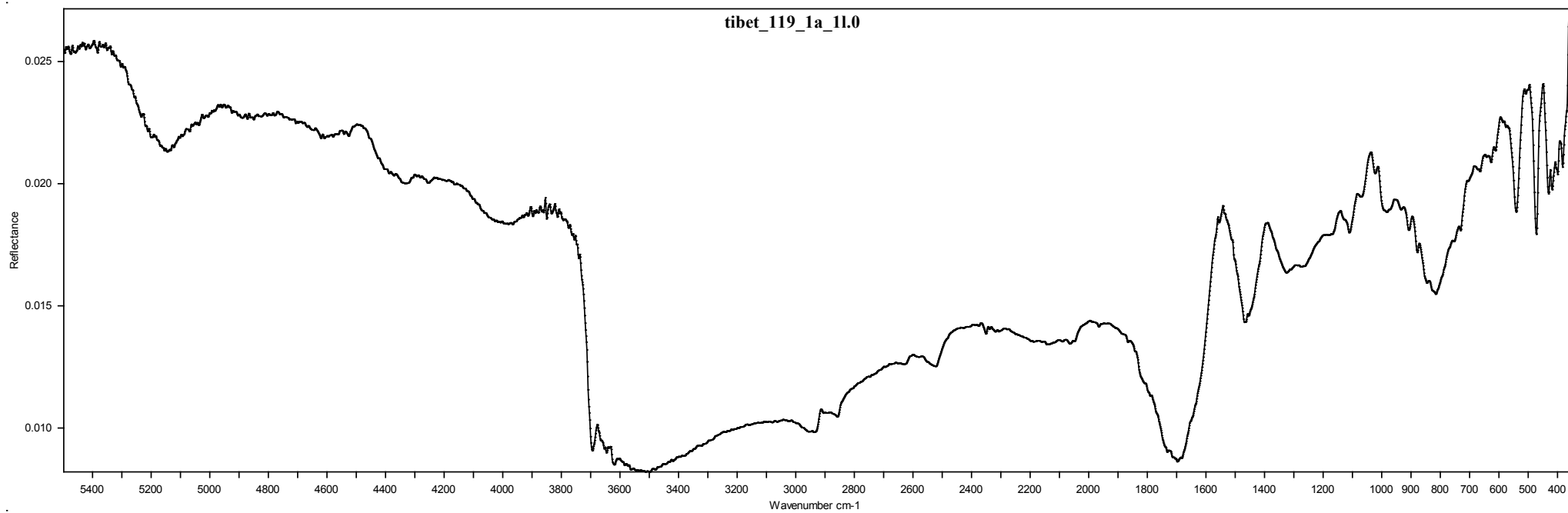
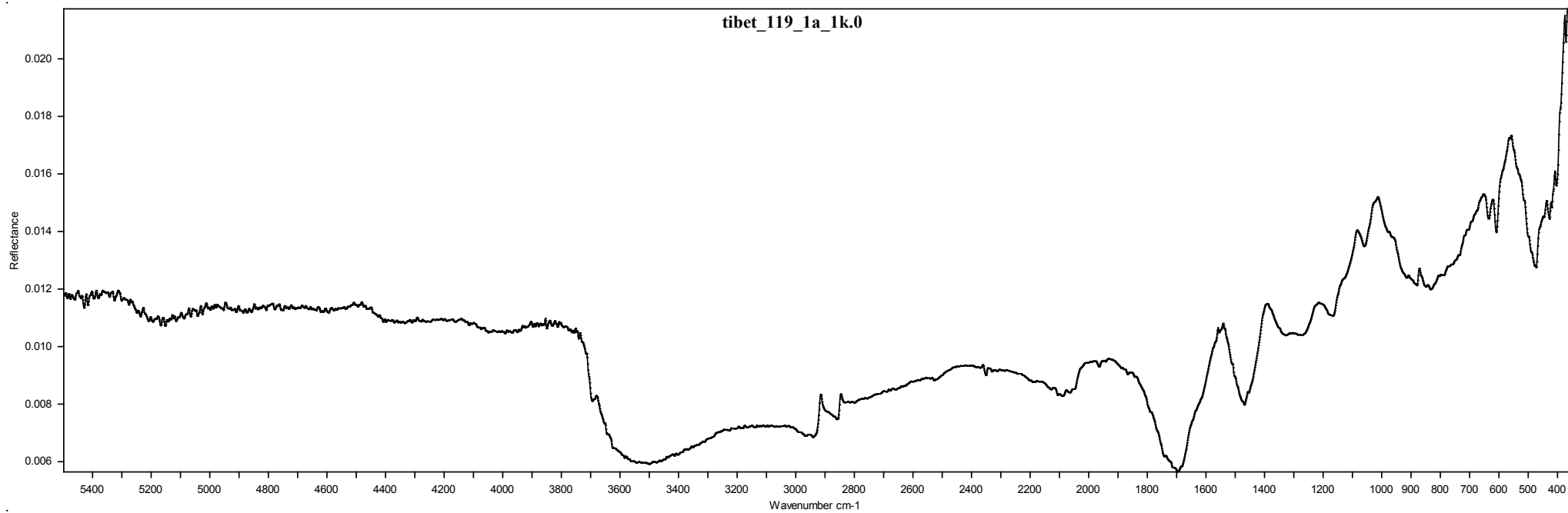


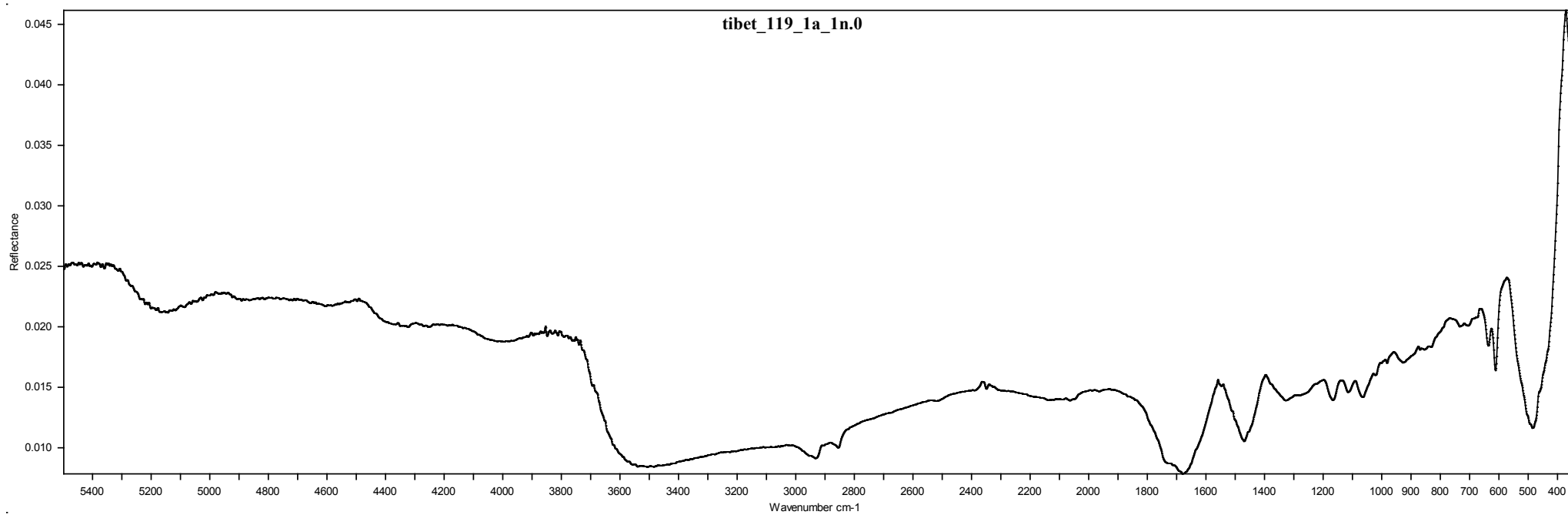
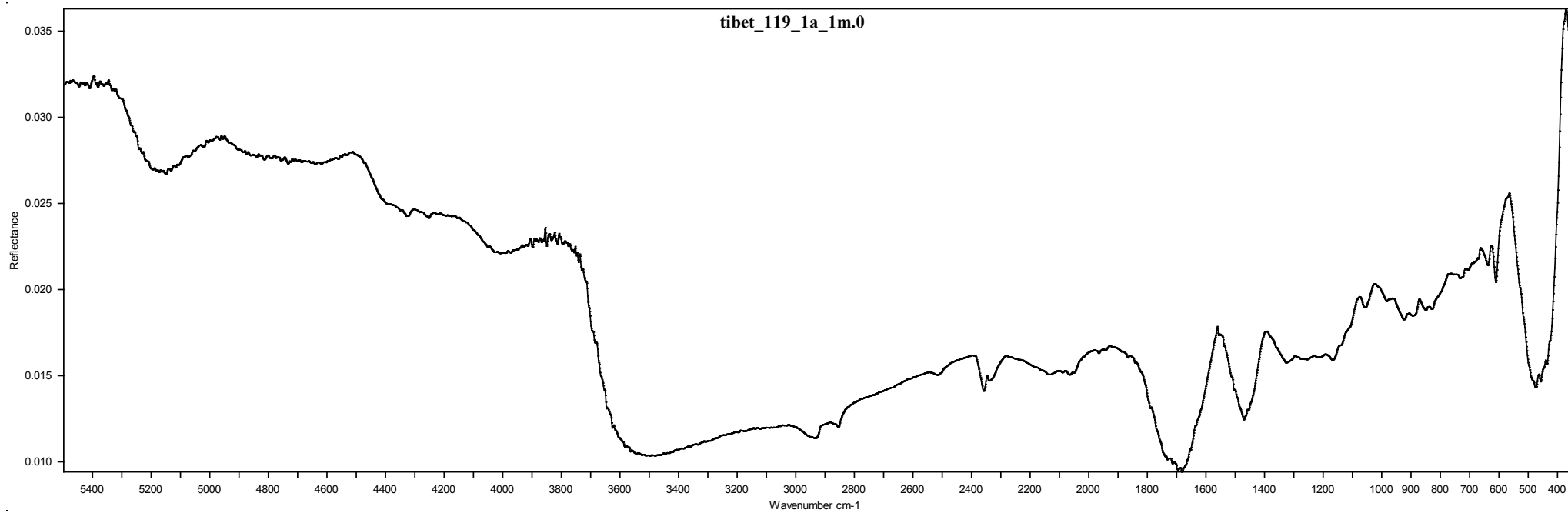


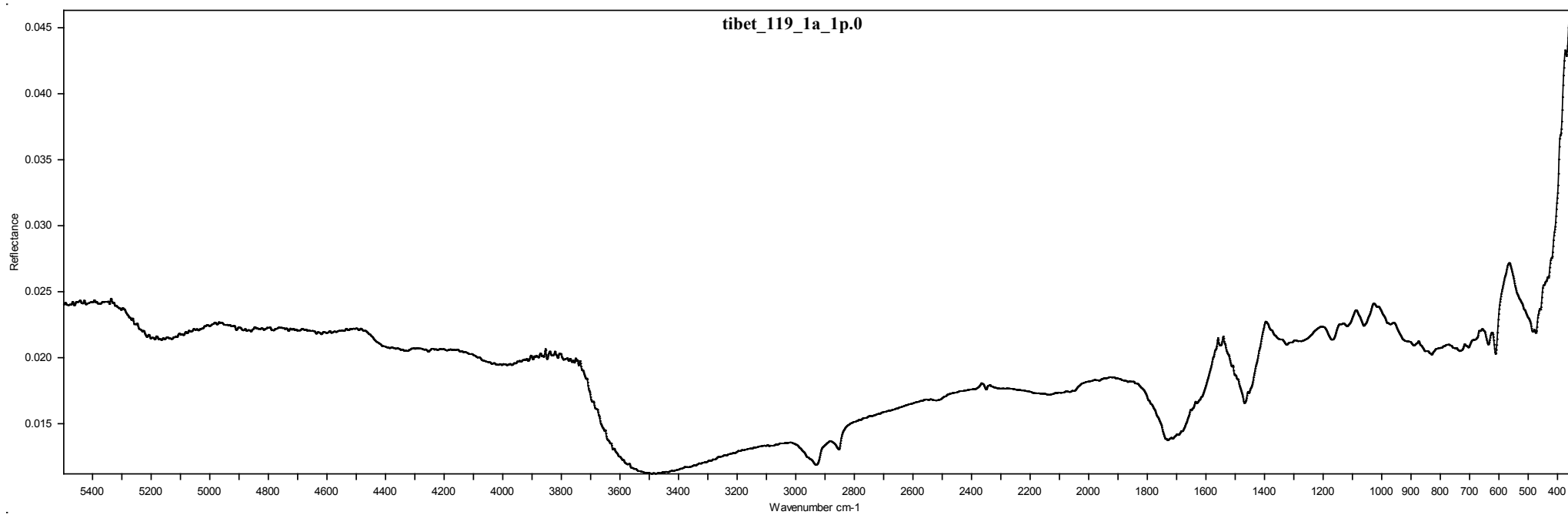
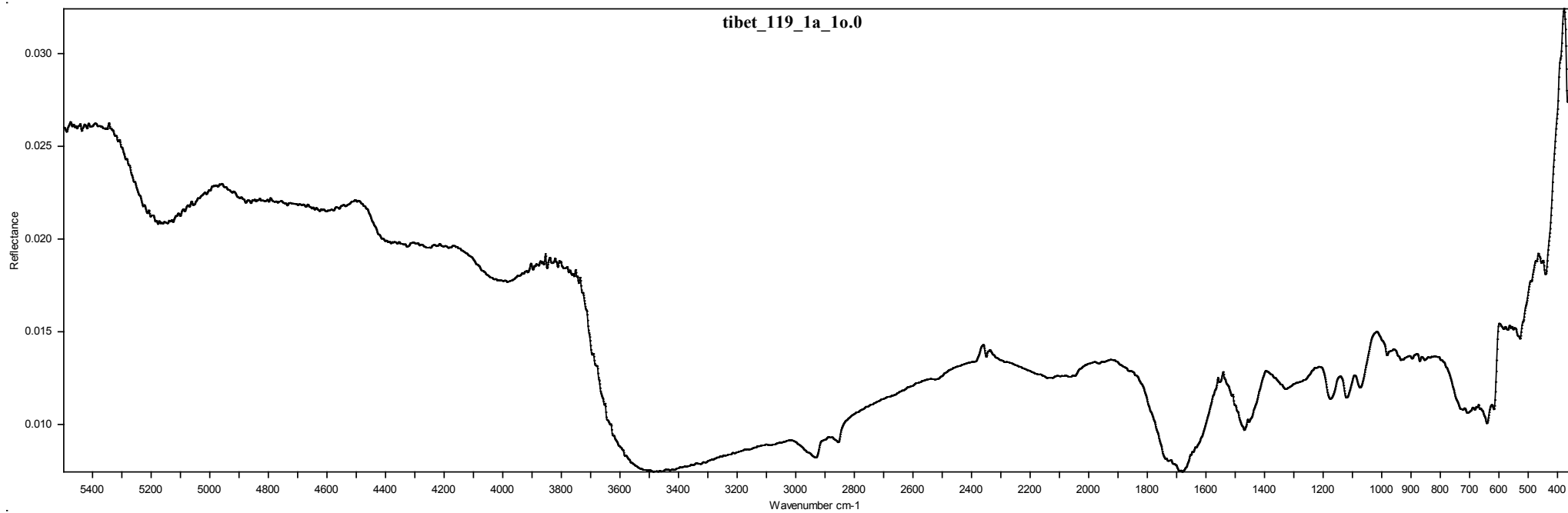












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Side b

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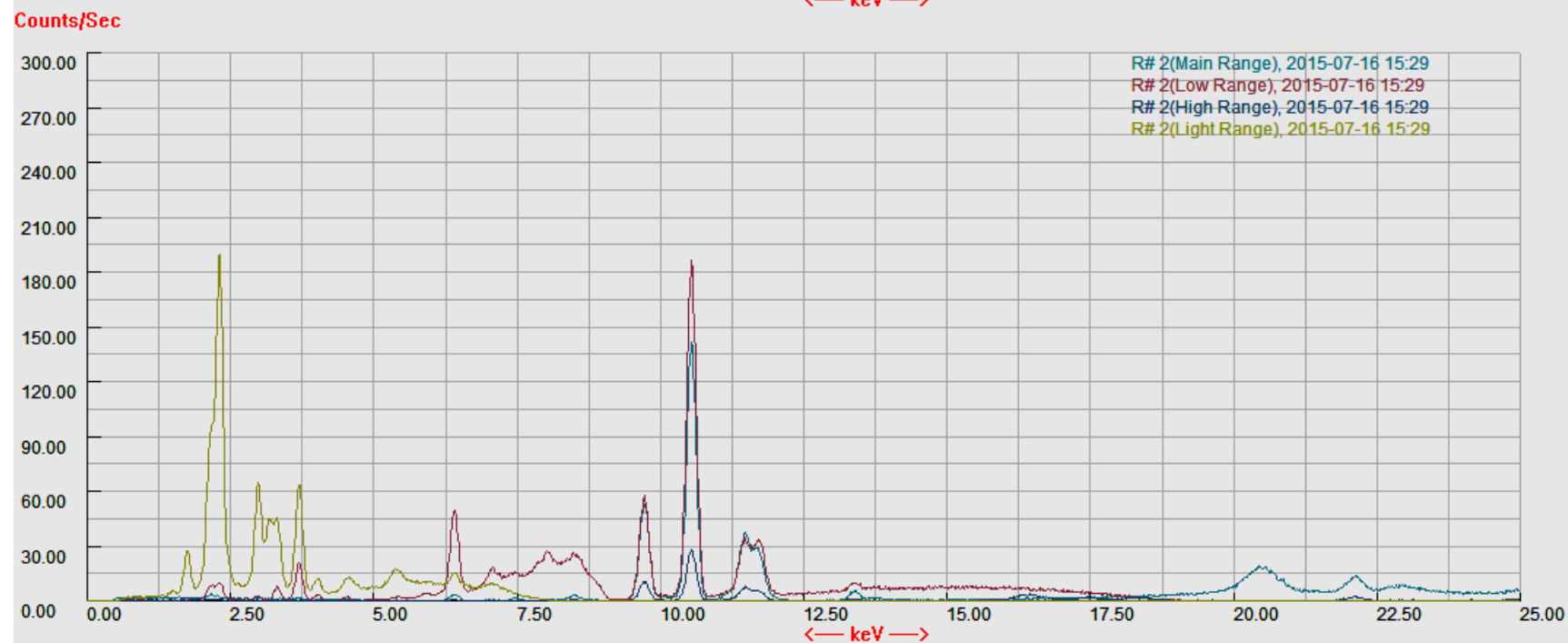
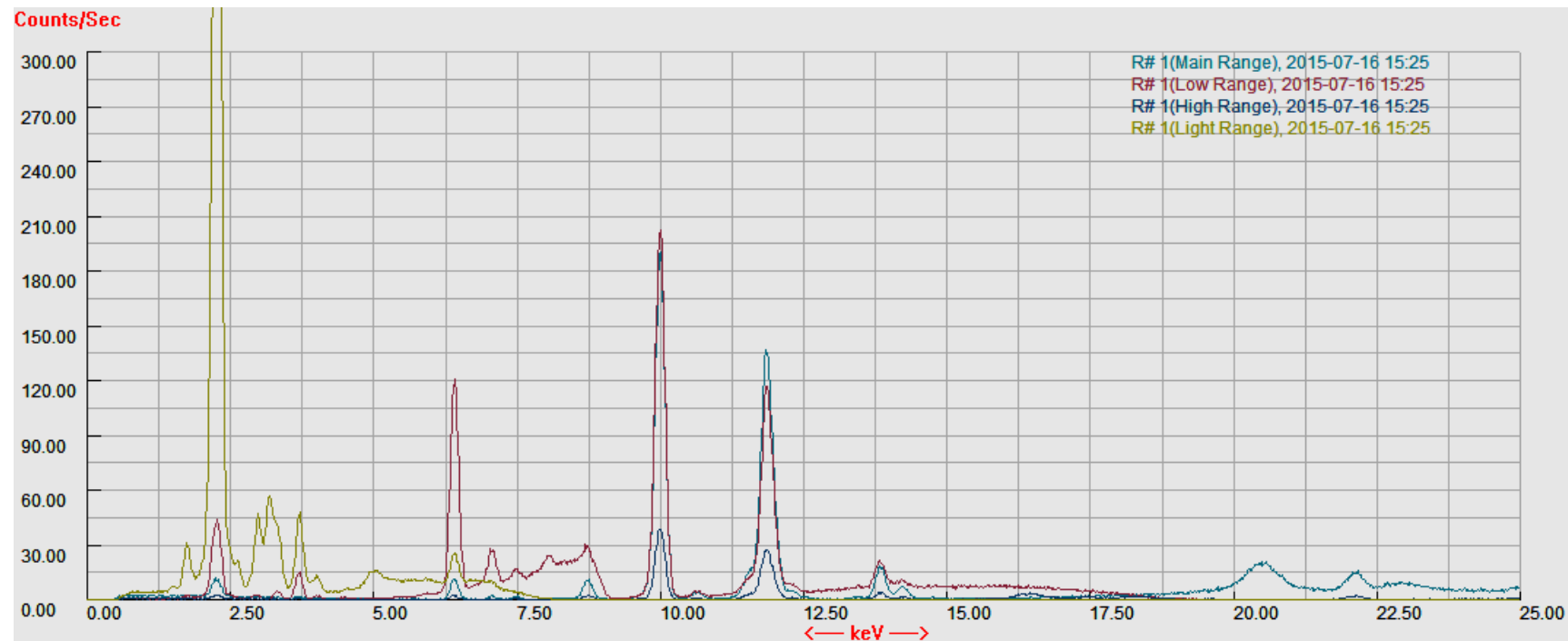
XRF-Analysis: Mapping of measurement points and spectra

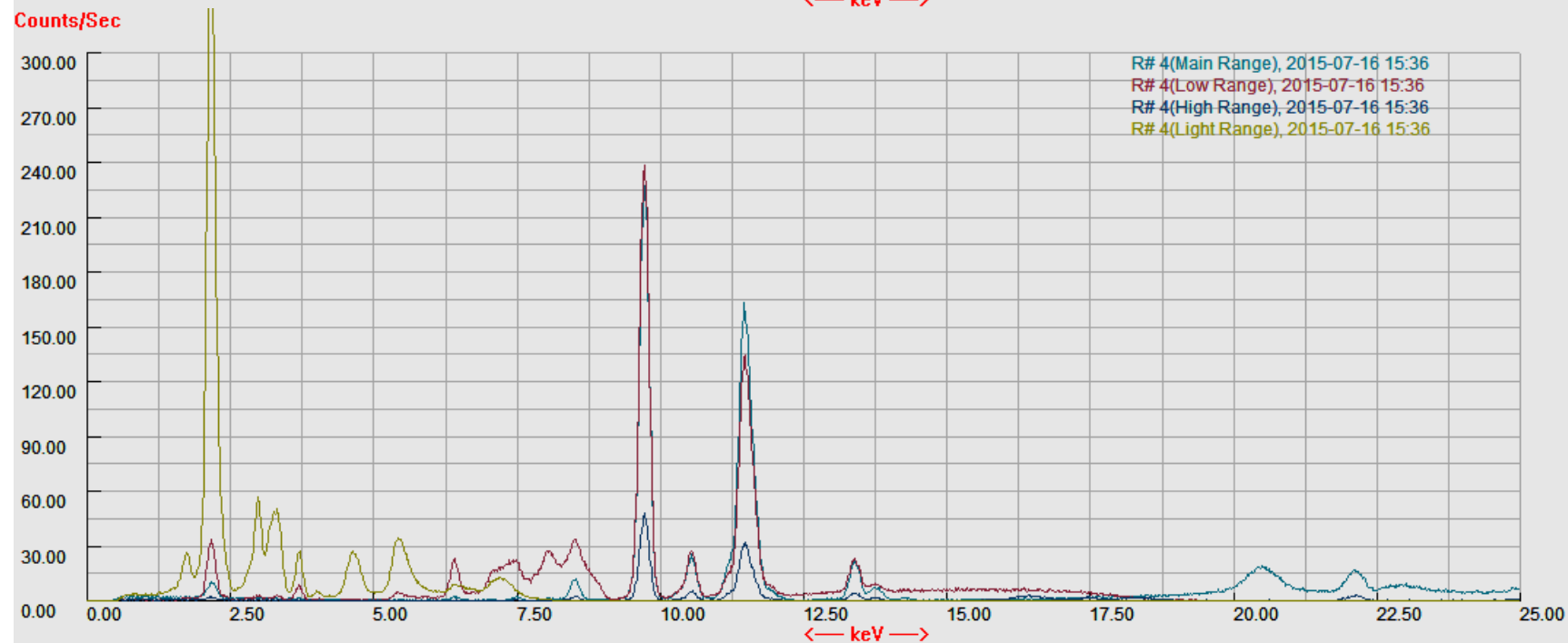
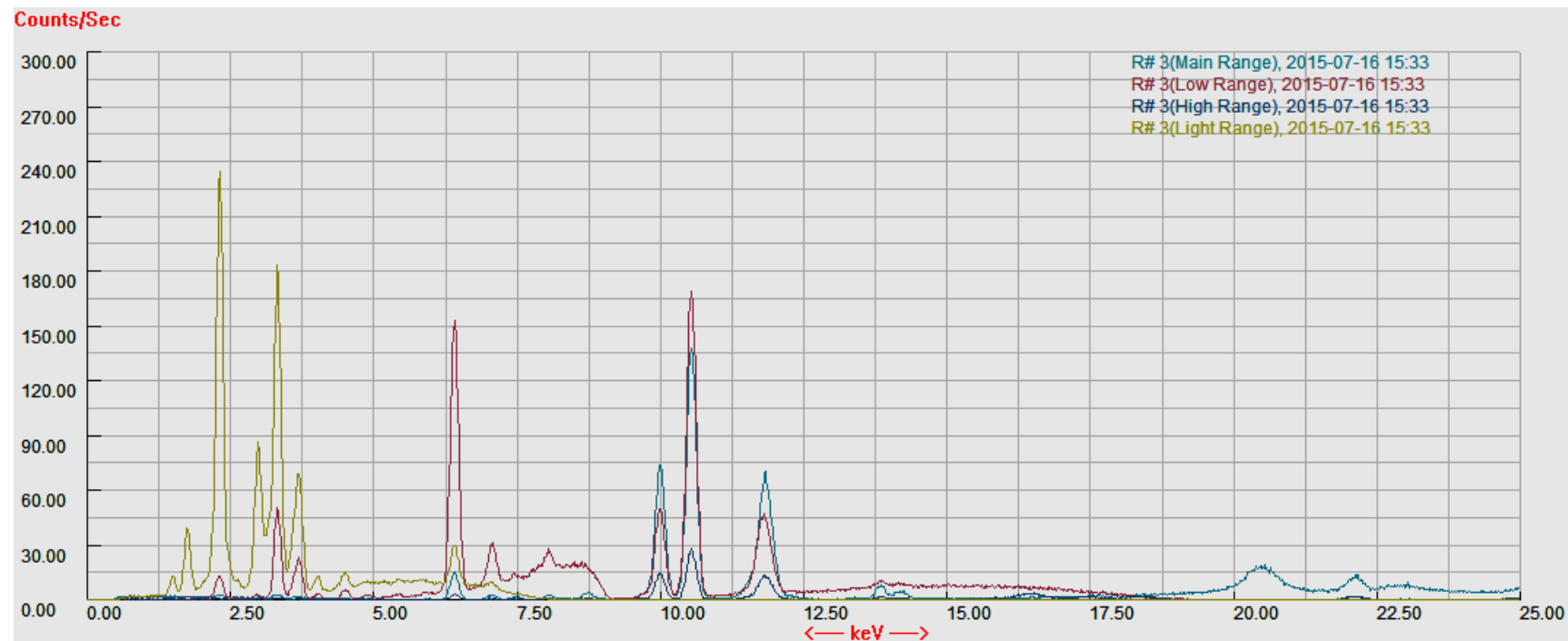
Scanning parameters

Instrument:	NITON XL3t GOLD D+
Scanning mode:	Mining (Cu, Zn)
Spectral resolution:	4 cm ⁻¹
Scan duration:	150 s

Spectra: #1 ... #4







FTIR-Analysis: Mapping of measurement points and spectra

Scanning parameters

Instrument: BRUKER ALPHA
Scanning mode: FTIR external reflection mode
Spectral resolution: 4 cm^{-1}
Spectral range: $360\text{-}5400\text{ cm}^{-1}$
Scan duration: 240 scans

Spectra: tibet_119_1b_1a ... _1d
(filename description: signature_side a/b_number of scan)



